

- AI 9/1/2002
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43. Apparatus for controlling rates of concurrent digital transmissions, comprising:
a memory having defined therein a queue having a plurality of locations; and
a controller including:

means, for each transmission, for writing an index corresponding to a data cell of
the transmission at one of the locations in the queue;

CONT

means for successively accessing the locations of the queue at a rate
corresponding to a cell transmission rate;

means, if the accessed location in the queue contains an index, for transmitting the
corresponding data cell, for freeing the location, and for rewriting the index at a location
in the queue that is distant from the accessed location by a value determined by the rate
of the corresponding transmission;

means for writing a ghost index into at least one of the locations in the queue; and

means, if the accessed location in the queue contains a ghost index, for freeing the
accessed location and for rewriting the ghost index in the queue at a random distance
from the accessed location.

REMARKS

Claims 19-43 have been added to provide more complete claim coverage of the present
invention. No new matter has been added.

The application is now ready for examination on the merits. If there are questions
regarding this amendment, please contact Applicant's undersigned attorney.

Respectfully submitted,
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Docket No. S01022.80401.US
Date: November 5, 2002
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